

UNION — Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

Vol. 23 - No. 23

OAK RIDGE, TENNESSEE

Wednesday, June 18, 1969



ENJOYING THE OVERLOOK . . . Visitors at the recently renovated Visitor's Overlook scan facilities of the Oak Ridge Gaseous Diffusion Plant while hearing a taped description of the plant's historic contributions to the nation's nuclear energy program and its growing role in providing an economical source to meet electrical power needs. Parking and picnic facilities are located nearby for the convenience of tourists and other quests.

Overlook At ORGDP Has Face Lifted; **Taped Program Gives Uranium History**

a "new look" for this year's tourist season.

Highway 58 across from the gas- 8 a.m. until dusk seven days a eous diffusion plant, offers a week. A small, shaded picnic area graphic description of the role the is also a part of the overlook. atomic energy program is playing in the defense of the nation, and in providing enriched uranium for nuclear power plants.

The facility is one of four operated by the Nuclear Division, Union Carbide Corporation, for the U.S. Atomic Energy Commis-

Until recently, the overlookoriginally built in 1962-was basically an open-air pavilion. Earlier this month it was renovated so that it now includes air-conditioning and it protected from the sun by tinted, heat-absorbent win-

In addition, visitors are permitted to take photographs of the gaseous diffusion plant from the overlook

On the back wall of the overlook is a collection of material illustrating the "chain of nuclear operations" and the gaseous diffusion plant's central mission for the Atomic Energy Commission-production of uranium enriched in the uranium-235 isotope.

Story of Uranium

Subjects covered include: uranium ore mining and refining; uranium production and the gas-

SAFETY SCOREBOARD

The Y-12 Plant Has Operated

205 Days Or 6,609,000 Man-Hours (Unofficial Estimate)

Through June 15 Without A Disabling Injury SAFETY AT HOME, AT WORK, AT PLAY

The Visitor's Overlook at the leous diffusion process; the fission Oak Ridge Gaseous Diffusion process of uranium; and uses of Plant has been dressed out with uranium-235 and the application of radioisotopes.

A parking area is adjacent to The overlook, located just off the overlook, which is open from

> The overlook is one of three tourist attractions in Oak Ridge which are available to the public free of charge. The American Museum of Atomic Energy, which highlights the story of the atom

Continued on Page 4

5½% Dividend Declared; Credit Union Gears For Big Deposits . . . Bigger Limits

Y-12 Credit Union has declared a 51/4 % dividend, computed on an annual basis, for the second quarter of 1969, ending June 30.

Recent changes in policy have enabled the directors to provide this added benefit to credit union members. Other improvements announced earlier this year have included removal of the monthly deposit limit for members, and the increase in the total share limit, to \$25,000 per employee

'Slippery Water' Tests Made On New York Fires

The New York City Fire Department, The Rand Corporation and Union Carbide Corporation recently cooperated in a demon-stration of "slippery water" at the Fire Department School on Welfare Island. "Slippery Water" is water with minute amounts of POLYOX added. The friction inside the hose is reduced to such an extent that fire hoses throw water farther and deliver a higher volume of water in a given period of time. This means that firemen will be able to get more water on a fire and reach higher with their standard equipment modified simply to bleed small amounts of POLYOX into lines. The Fire Department calls the "slippery water" an important breakthrough in fire-fighting technology because, unlike other developments, it is compatible with current fire department equipment and opera-

Social Security

The Social Security office recommends you visit them at least three months before your retirement. Bring proof of age and your social security nurr. They need to talk to you to ge. our name in the pot on time.

Retired Group To Form Tomorrow

A meeting will be held tomorrow, Thursday, June 19, at 1:30 p.m. in the Green Room of the Ridge Recreation Hall to organize a chapter of the American Association of Retired Persons. All retirees in the Oak Ridge area are invited to attend the meeting.

At present, there are 599 chapters in the United States, with membership exceeding 1,600,000. In addition to the fellowship involved, this organization offers mail order drug service, a lowcost health insurance plan, excellent life and auto insurance designed for the specialized needs of older citizens and the opportunity to travel in this country and abroad on fully escorted, all inclusive group tours.

All persons in this area 55 years or older, whether or not retired, are eligible for membership and are cordially invited to become charter members of the Oak Ridge chapter of AARP.

ADJUST TO IT

Make adjustments for bad weather while driving. Make allowances for slick roads. Bad weather also reduces your already severely limited vision.



HERB POHTO, LEFT, AND CARL D. ST. ONGE, right, receive congratulatory letters from Leo F. Hemphill, Tool Engineering, center, for a joint development of theirs. The development "Improved Hot-Isostatic-Pressing Apparatus" has brought about a patent application in the name of the U.S. Government.

Y-12 Papers Given At Carbon Conference



Smith

Campbell



Peterson

Schmitt



Malthouse

Creech



Trent

Bennett

Meet Set In Boston All This Week

A total of six technical papers describing carbon development work here in Y-12 is being presented at the American Carbon Committee's Ninth Biennial Carbon Conference. The conference is set in Boston, Massachusetts, June 16 through 20.

The development work described in the papers was performed by Union Carbide personnel in support of U.S. Atomic Energy Commission programs. The Y-12 papers and their authors are as follows:

"High Carbon Yield Organic Binder Materials for Fabrication of Carbon-Carbon Composites," by W. E. Smith, describes the synthesization and evaluation of polynuclear hydrocarbon compounds for applications in binder technology.

"Carbon Foam Fabrication Technology," by V. B. Campbell, discusses methods of fabricating carbon foam in addition to a description of the material's physical and mechanical properties.

"High Density Isotropic Graphite," by G. R. Peterson, describes fabrication techniques used in producing a high density isotropic graphite.

"Fabrication of Low Density Continued on Page 4

The Bulletin

Published Weekly For The Y-12 Employees Of UNION CARBIDE CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG

Editor



Editor's Association

American Association Industrial Editors

OFFICE Post Office Box Y Oak Ridge, Tenn. 37830 Telephone 3-7100

Long-Time Guard J. R. Barber Dies

James R. Barber, long-time Y-12er, died Friday, June 6, in a Knoxville Hospital. He was a member of the



J. R. Barber

here October 31, 1943. He had worked with Brookside Mills and Charlie's Pies Shop, both in Knoxville before coming here.

Guard Depart-

He was born in Knox County and the Barber home is at 1003 Henrietta Drive, Knoxville.

Survivors include his wife Mrs. Ruby Barber; daughters, Mrs. Jo Ann Miller and Miss Ava Barber; sons, Robert G. Barber, James L. Barber; one granddaughter, Teri Barber; sisters, Mrs. Ruby Moody, Mrs. Bessi McNabb, Mrs. Martha Caldwell; brothers, Wallace, Charles and Ulyses Barber, all of Knoxville.

Funeral services were held Sunday, June 8, at 3 p.m. at Mynatt's Chapel, with the Reverends Robert Sanders and Dewey Jackson officiating. Interment followed in the Greenwood Cemetery, with the Masonic Order in charge.

Sympathy is extended the Barber family.

J. C. Mills Was Another Retiree



James C. Mills

Another Y-12er took early retirement May 29 . . . and the Bulletin failed to note his leaving.

James C. Mills, Area Five Maintenance, retired after more than 17 years continuous service here. He came to Y-12 November 6,

Mills, a native of Dandridge, lives at 8108 Burchfield Drive, Oak Ridge.



FRANK LAMBERT, METALLURGICAL DEVELOPMENT, demonstrates how he took a crippling fall last Spring, attempting to straighten some pines that had been bent during a storm. "Despite my efforts, and accident, the pines grew as straight as an arrow, without my help," he ironically stated.

'Pine Trees Grew Straight Anyway Without My Help,' Says Lambert

This is the third of a series of articles written by Y-12ers, relating their experience with a lost-time accident last year. Frank Lambert, Metallurgical Development, him to show. suffered a painful fall last Spring. For eight weeks he wore a footto-hip cast and required surgery. For 83 days he required crutches. Let him tell his story.)

"I am Frank Lambert of the Metallurgical Development Department, Development Division.

"On May 14, 1968, I sustained a serious injury to my left leg when I fell from a ladder while doing some maintenance work in the yard at my home.

"Some young pine trees in my yard had taken quite a beating during a weekend storm, and I decided they should be tied to some stakes for support. The trees were about five feet tall, so I needed something to stand on while driving the stakes into the ground. A short kitchen-type stepladder was just about the right height, and everything was proceeding according to plan until the ladder tilted.

"Apparently, one of the legs of the ladder dug into the soft ground; and I lost my balance. I jumped clear of the ladder, hoping to avoid a fall; however, I landed with my left leg in a stiff position which jarred me pretty hard. In fact, I hit the ground with such force that I could hear the joint of the left knee strain under the impact. I somehow managed to hobble to the back porch where my wife became alerted to my condition and brought me a pair of crutches that had been obtained for a previous injury.

"We called the family doctor, and he suggested I go to the hospital and have the knee X-rayed. My wife drove me to the emerduty confirmed that the injury my doctor. It was determined that placed on firm ground, and that

off-the-job accidents continues. driven into the knee socket with by holding onto the ladder. Just such force that the socket had split. Needless to say, I was very a whole lot of pain and cost.' put out with my physician when I lay awake all night, waiting for

> "Surgery was required to insert a bolt and nut, securing the joint until it healed. I spent 10 days in the hospital. A cast, from the foot to the hip, was placed on my leg, with instructions that absolutely no weight whatsoever was to be placed on the leg. I struggled with the binding and pinching of the cast for eight weeks. The skin on the leg near the seat was a continuous blood blister from the pinching of the cast. After eight weeks I returned to the hospital for surgery to remove the hardware and cast.

"The ordeal did not end with the removal of the cast after the eight weeks had passed. I had been on crutches during the entire period and was required to continue their use for many weeks without a lot of other things, too! essing. thereafter. Progress was very slow, with graduated weight limitations beginning at 15 pounds. A total of 83 days passed before I was permitted to discard the crutches and return to work.

"It is difficult to relate the full extent of the pain, mental anguish, inconvenience, and cost that resulted from what began as a relatively simple home project. The leg continues to raise doubts in my mind as to its realiability, especially in those situations where a lot of pressure is applied, like on step inclines and steps, while carrying loads such as groceries.

"How would I prevent the recurrence of such an incident should I be confronted with the problem again, because the trees grew just as straight as an arrow without my help anyway. Seriously, should you have occasion gency room where the doctor on to be climbing a ladder around your home, make sure that it is was quite serious and informed adequate for the job, that it is

(Editor's Note: The war against | the large bone in my leg had | you are able to support yourself a little caution can often prevent

ORNL Sets Conference On Blood Platelets

Oak Ridge National Laboratory is sponsoring a Conference on Blood Platelets next week. It is set to open Monday, June 23, at the Oak Ridge Playhouse, and features sessions on Carbohydrates, Fats. and proteins of Platelets; Plateler and Megakaryocyte Kinetics; Hemostatis; Release Reaction; Inhibitors of Release and Platelet Aggregation.

Dr. Howard I. Adler, director of ORNL's Biology Division, will deliver the welcoming address at 8:20 a.m. Monday.

SANS TROUBLE

you live without worry . . . and sion, will speak on uranium proc-



Ah . . . summer, with Saturday it becomes official! Officially, there are more Y-12ers marking important dates with Union Carbide Corporation, too. Congratula-

25 YEARS

Rufus F. Noah, Area Five Maintenance, June 19.

Mary H. Cunningham, Plant Records, June 19.

Shade H. Inman, Research Services, June 23.

15 YEARS

Clayton R. Olmstead, Physical Testing, June 20.

George A. Burton Jr., Physical Testing, June 21.
Virgil L. Perry, Area Five

Maintenance, June 21.

Norman C. Abbott, General Expediting and Auxiliary Services, June 21.

R. B. Patterson, Area Five Maintenance, June 21.

David R. Heidle, Stores Department, June 21.

Luther H. Finks, Receiving Department, June 22.

10 YEARS Effie L. Cagley, Plant Records, June 22.

Harry G. Conner, Labor Relations, June 22. Vernon Smith, Assembly Oper-

ations, June 22. Ruth E. White, Receiving Department, June 22.

Pear Shape Nuclei **Topic Of Seminar**

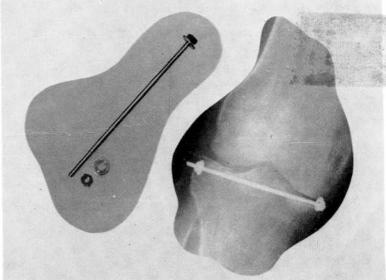
"The Problem of Pear Shape Nuclei in the s, d Shell" is the subject for this week's Physics Division seminar. B. Giraud, Carnegie-Mellon University, will lead the seminar.

It is scheduled for Friday, June 20, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

TSPE Honors 'New' **Engineers At Meet**

The Tennessee Society of Professional Engineers is meeting tonight, Wednesday, June 18, at the Alexander Motor Inn, Oak Ridge. The meeting begins at 6:30 p.m., with dinner at 7:30.

To be honored are 15 newly registered professional engineers. Sylvan J. Cromer, director of en-Live within your income, and gineering for the Nuclear Divi-



THE KNEE BONE is connected to the thigh bone . . . sings Frank Lambert . . . with nuts and bolts, that is. Above are seen the hardware that stayed a while in Lambert's knee after he took a disabling fall at his home in May of last year.

Recreation



Monday, June 23

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. Go Go Gophers vs. Bat Boys; All Stars vs. Braves; NC Squad vs. Show Ups.

Tuesday, June 24

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. Beta Two Miners vs. Colts; 69ers vs. A Wingers; Beta Four Astros vs. J-Birds

PHYSICAL FITNESS (For Men): 7:30 p.m., Oak Ridge High School Gym.

WHITTLES GOLF LEAGUE: After work, Whittle Springs Golf pert advice on hand for newcom-

Course, Knoxville. Wednesday, June 25

MELTON HILL GOLF LEAGUE: After work, Melton Hill Golf Course, Clinton.

GOLF: Deadline for entering June 28 tournament at Southwest Point, 4:30 p.m.

Thursday, June 26 SOUTHWEST POINT GOLF LEAGUE: Southwest Golf Course,

Kingston, after work. SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. K-25 Gashouse Gang vs. Y-12

Snakes; Eagles vs. Yankees; Big Shops vs. Buccaneers. HORSESHOE LEAGUE: 7 p.m. City Courts, Jackson Square, Oak

PHYSICAL FITNESS (For Men): 7:30 p.m. Oak Ridge High

School Gym. Saturday, June 28

GOLF TOURNAMENT: 6:30 a.m. Southwest Point Golf Course, Kingston.

Ball-Leach Top Whittle Golfers

J. D. Ball carded a 39 . . . along with Sam O'Neal, in the Whittle Springs Golf set last week.

Low handicap score was turned in by Don Troutman . . . a 31.

Allen True and O'Neal each earned five pars on the nine-hole

Troutman-Chitwood zipped six points away from Cowen-O'Neal . . Ball-Leach ousted True-Poe for four, as did Norris-Smeltzer past Tharpe-Dake.

League standings follow:

Ball-Leach	20
Tharpe-Dake	
Cowen-O'Neal	10
Troutman-Chitwood	
True-Poe	8
Norris-Smeltzer	8
Holland-Wilson	6

Weathersby Fires Hi For Skeeters

June winners in the Carbide Skeet Tournament features two newcomers to Skeet circles . .

W. Weathersby and V. Raaen. Y-12 Weathersby fired a 49.360 handicap score . . . Finis Patton a 49.243 and Raaen (from K-25) clocked a fine 49.200 . . . after shooting 25 broken birds from 25

July's tournament will be set Sunday, July 6 . . . the big 4th weekend set for a couple of weeks hence. All Carbiders interested in skeet shooting are invited to come on out . . . Sunday at 1 p.m. (July 6, that is) at the Oak Ridge Sportsmen's Association range.

It's all for fun, and there's ex-

CID.	
June tournament firing	ngs:
Shooter 1	H'Cap Score
R. Allstun, Y-12	45.871
B. Searles, Y-12	
F. Patton, Y-12	49.243
C. Asmanes, Y-12	46.375
B. Bowers, Y-12	46.375
J. Comolander, Y-12	46.290
F. Welfare, ORNL	49.156
V. Raaen, K-25	49.200
W. Weathersby, Y-12	49.360
T. Webber, Y-12	
Jack Case, Y-12	49.191
Bo Glover, Y-12	
Carl Brewster, Y-12	48 981
N. Shamblin, Y-12	47 440
L. Bray, Y-12	49.065
B. Etheridge, Y-12	
Perry Bullard, Y-12	47 949
*Under Penalty—Previous	Winner
onder renaity—Frevious	williet.

Smith-Henderson Lead SW Linkmen

Dan Morgan fired a hot 32 . . in Southwest Point Golf action last week . . . H. C. Wright a 33 handicap score.

The Goss-Stanton team took four from Bolt-Verner; as did Jones-Morgan past Smith-Henderson. The Mee-Wright team took four from Groppe-Argo, also.

League standings follow:

Team		W
Smith-Henders	son	18
Goss-Stanton		17
Jones-Morgan		14
Mee-Wright		9
Bolt-Verner .		8
Argo-Groppe	***************************************	6
	The state of the s	

Median Income Hiked 50% In Past 10 Years

Median income of American families in 1968 was about 50 per cent greater than in 1960, and more than two and one-half times its 1950 level, the National Industrial Conference Board reports. About one-third of these money gains, however, were offset by rising prices. Growth in family income is due, in part, to increasing prevalence of the working wife, steady upgrading of male occupational skills, and rising productivity in the economy.

Tee-Off Time Application For **SW Point, Kingston Golf Tournament**

Saturday, June 28

Foursome	
	Leader
Leader's office phone	
Home phone Tee-off Time Preferred	

Fill out completely and return to the Recreation Office, Building 9711-5. Deadline for entering is 4:30 p.m. Wednesday, June 25. Tee-off times will be drawn the next day, Thursday, June 26 at 8:30 a.m.



A HOST OF Y-12 KIDS showed up for the E, F, G, H and J hot dog picnic and game production at the Clark Center Recreation Park Saturday, June 7. Who said Y-12 wasn't productive?

Shift Group Sees Slam-Bang Picnic June 7

A teeming crowd of 450 showed for the big picnic (hot dog-game session) set Saturday, June 7, at the Clark Center Recreation Park.

Sponsored by E, F, G, H and J shifters (all Y-12ers were welcomed, however) it was a first on many counts . . . first off, they did NOT run out of weinies! A total of 900 hot dogs was consumed . . and nobody went away hun-

Separated . . . 10 for adults and 10 for children . . . the winners came up thusly: On the kid side it was Wendell Less, pen and pencil set; B. Steele, croquet set; G. Hockaday, suitcase; J. A. Williams, butter dish; Candis Creigh, pen and pencil set; Nick Shelley, croquet set; Craig Ross, ice crusher; Clyde Craven, gallery tray; J. L. Williams, croquet set; S. E. McCoy, same; Mike Clark, hutch; C. W. Dean, croquet set; Joan Gore, clothes hamper; Mike Clark, hutch; C. W. Dean, croquet set; M. D. Hockaday, pen and pencil set; Suzette Spradlin; Daryl Tilson, serving tray; Libby Williams and Stephen Moncier, pen and pencil set; L. Sliger, casserole; and Randy Myers, candle holders.

The Shift-group has set Sunday, July 20, 6 p.m. for a BIG WATER-MELON CUTTIN'. So the melons should be at their peak about that, time . . . so come on out . . . they say. All the watermelon you can eat FREE.

Melton Hill Lead Is Up For Grabs

J. R. Baker led Melton Hill Golfers last week by shooting a 38 on the nine holes . . . keeping his team . . . the Baker-Bab duet up there with the best of them. Charlie Ferguson scored a 33 on handicap counting.

Gresham-Bell posted five over Parker-Parrott to remain atop the heap, also. Baker-Babb took the full sweep over Helton-Hill, as did Clabough-Tiller by Butterini-George; Tuck-Wetzel over Dunaway-Wright, Sewell-Sewell over Roberts-Cook, and Pryson-Sise by Nixdorf-Holdaway.

League standings follow: resham-Bell

Gresham-Bell
Baker-Babb
Sherrod-Wyrick
Clabough-Tiller
Butler-Wright
Tuck-Wetzel
Alvey-Phillips
Butterini-George
Parker-Parrott
Sewell-Sewell
Poly-Morehead
Ferguson-Winstead
Wright-Dunaway
Pryson-Sise Pryson-Sise Roberts-Cook

PEACEFUL PACIFIST

Carter-Butler

Holdaway-Nixdorf

A pacifist is one who fights with everybody but the enemy.





THE ALPHABET SOUP GROUP (Shifts E, F, G, H and J) staged the winners' circles above for game time participants. The kids in the top photo took croquet sets, while the adult winners in the lower photo took a variety of nice

Snakes Knock All Stars From Top As Softball Action Gathers Speed

The blistering action of Softball | pletely outclassed the Gashouse play began last week, as the Y-12 Gang 28 to 6. Jack Sliger slugged Braves bested the Yankees 15 to

Fred Wetzel and Dave Cowan poled homers for the winning team; Hal Smith for the losers.

The Eagles out-played the Go Go Gophers in game two, 20 to 2 . . with Ron Greene kicking two homers over the fence . . . Frank Koon and Hugh Richards each belting one.

All Stars Fall

The final game Monday saw the Snakes knock the All Stars from the select group of undefeated teams . . . 11 to 4.

The big inning for the winners was number two, when five crossed the plate to spell the difference.

The only action Tuesday was the Big Shops squeezing by the J-Birds 12 to 11. Ken Duggin scored a homer for the losing cause.

Bill Dean, Harley Law and Lynn Story scored big ones for the winning Big Shops.

Two forfeit wins were chalked up . . . the Buccaneers over Beta 2 Miners . . . and the K-25 Gashouse Gang over Beta 4 Astros.

Wednesday Action Wednesday saw two games played . . . as the A-Wingers com-

out the only homer of the game for the winners . . . Charley Hensley cleared the fences for the losers.

The Big Shop team took a forfeit win from the Beta 4 Astros.

Thursday's clear, hot weather saw the 69ers sink the N.C. Squad . . 13 to 1. Ron Norris and Harry Raley nailed homers into the record books.

The A-Wingers took their second win of the week, this time from the Bat Boys 13 to 11.

Jim Abele gave an able assist with a four-bagger.

The Colts clipped the Show Ups 41 to 2 in a free-for-all, with everybody (almost) poling long homers . . . John Keith cleared two . . . Sam Woodfin, Harold Conner and Steve Cates all collected one each.

Braves All Stars 69ers K-25 Gashouse Gang Yankees J-Birds, K-25 Buccaneers
Big Shops
A-Wingers
Go Go Gophers
Show Ups
N.C. Squad
eBta 2 Miners
Beta 4 Astros
Bat Boys



AFFLICTED WITH A RARE FORM OF CANCER, Burkitt's Lymphoma, a young patient is examined in Kampala, Uganda, while his family looks on. Research and treatment procedures for the disease which is found almost exclusively in a belt that stretches across the center of Africa were photographed at the Lymphoma Treatment Center for 'The 21st Century' report on cancer, 'The Wild Cell,' to be seen Sunday, June 22, at 6 p.m., EDT in color on the CBS Television Network. WBIR-TV, Channel 10, carries the show in this locale. CBS News Correspondent Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

'Wild Cell' Study Of Cancer Set For 21st Century Showing Sunday

treatment for cancer, will be the pare for themselves living normal topic of "The 21st Century" report, "The Wild Cell," Sunday, June 22, at 6 p.m., EDT, in color on the CBS Television Network. The program is aired here by WBIR-TV, Channel 10. CBS News Correspondent Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corpo-

A highlight of this progress report will be a visit to Kampala, Uganda, where the Lymphoma Treatment Center is located. Burkitt's Lymphoma is a form of cancer which medical experts believe bears close resemblance to acute leukemia, blood cancer, one of the major killers of children in the United States. Unlike most cancers, drugs have been effective against Burkitt's Lymphoma, and it is hoped that treatment methods that work here might lead to a breakthrough in the treatment of leukemia.

Viewers will also be able to

K-25 Overlook

6:30 p.m. on Sunday.

Saturday.

Continued from Page 1 with attractive displays and exis located on Oak Ridge Turnpike, two miles west of downtown Oak Ridge. It is one of the major tourist attractions in East Tennessee. The museum is open from 9 a.m. to 5 p.m., Monday through Saturday, and 12:30 to

The Graphite Reactor, a registered National Historic Landmark, is located at the Oak Ridge National Laboratory. The reactor, plus many attractive displays are open to public viewing from 12 noon to 4 p.m., Monday through Friday, and 9 a.m. to 3 p.m. on

The latest areas of research and | look in on a laboratory to comcells, placed side by side, to the wild cells that specialists recognize as cancer.

> "The Wild Cell," was written by Fred Warshofsky, science editor for "The 21st Century;" Isaac Kleinerman is producer and Burton Benjamin is executive pro-

"The Wild Cell" on "The 21st Century" Sunday, at 6 p.m., WBIR-TV, Channel 10.

PASSENGER VEHICLES

Almost 70,000 motor vehicles were involved in fatal highway crashes in 1968. Of these, more than 55,200 were private passenger cars, according to The Travelers Insurance Companies annual statistics.



LITTLE LILIAN Gale Williams was born February 16 of this year, the second child of Wayne and Alice Williams (he's in Building Services). She is the granddaughter of O. L. Williams, also, Buildings, Grounds and Maintenance Shops.



Ride wanted from Cambridge Hall, Oak Ridge, to North Portal, straight day. Cheryl Manson, plant phone 3-5874, home phone Oak Ridge 483-9103.

Will join car pool from Downtown area, Oak Ridge, to North Portal, straight day. J. R. Cullipher, plant phone 3-5415.

Ride wanted from Fountain

City area, Knoxville, near corner of Garden Drive and Jacksboro Pike, to North Portal, straight day. Roger Schad, plant phone 3-7827, home phone Knoxville 687-4885.

Riders wanted from Cumberland Estates, Karns, via Oak Ridge Highway, straight day. Earl Hoskins, plant phone 3-5331, home phone Knoxville 584-5173.

Ride wanted from Rocky Hill, West Hills section, Knoxville, to North Portal, straight day. Ernest Smith, plant phone 3-5510, home phone Knoxville 583-8360.

New Doctor Hailed In McMillan Home



Cynthia McMillan

R. G. McMillan, Atomic Energy Combined Operations Planning, and former Y-12er, marked a very special day recently. He stood in the wings at the University of North Carolina's School of Medicine and saw his wife Cynthia take the Hippocratic oath as a Doctor of Medicine.

Cynthia Swisher and Bob met while he was attending North Carolina State, and she was enrolled at UNC. Bob is a graduate of Emory University, and took his PhD degree in statistics from NCS. They were married December 17,

Cynthia plans her internship at UT Memorial Hospital, Knoxville, with ultimate plans of specializing in pediatrics. Her happy graduation as a doctor came Monday,

McMillan's mother, Mrs. Reba H. McMillan, and his sister-inlaw, Mrs. Thomas McMillan, attended the rites also. (Tom is a physician practicing in Charlotte.)

At least the McMillan family is going to have enough doctors around!

Bob and Cynthia live in the Williamsburg Town House Apartments, on Traditional Drive, Knoxville.

SO BE IT

It has been said that bright eyes indicate curiosity. But then, so do black eyes!



UNION CARBIDE CORPORATION

NUCLEAR DIVISION

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Y-12 Physicists Set Papers In Seattle

Nuclear Society Meeting June 15-19





Callihan

Two Y-12 physicists, Dr. Dixon Callihan and Elizabeth B. Johnson, will present papers at the American Nuclear Society meeting in Seattle, Washington, this week. The ANS meeting is set June 15 through 19.

Dr. Caliihan, Director of the Oak Ridge Critical Experiments Facility in Y-12, will present two papers, "Trends in Criticality Control," and "Standardization or Strangulation."

In the first paper, he will report that his facility has developed a basis for specification for transportation of fissile materials to conform to federal regulations. In the second paper, he will explain the need for urgency in developing nationally recognized voluntary standards for the growing nuclear industry.

Mrs. Johnson's paper will describe experiments conducted with unclad rods of low enriched uranium in water to determine the minimum amount of low enriched uranium required to initiate a nuclear chain reaction.

FULLY EQUIPPED

The oil man's daughter returned from college and her dad was showing her around the Texas estate. They stopped at the side of the new swimming pool which was full of young athletes cavorting in the water and on the diving board. "Oh, daddy," she exclaimed, "you've stocked it already for me!"



TANYA RENEE Maupin is a little ray of sunshine in the James and Alice Maupin household, 226 West Tennessee Avenue. Tanya is also the seven-months-old granddaugh-ter of June Maupin, Production

Y-12 Papers

Continued from Page 1 Carbon Honeycomb," by C. R. Schmitt, describes the fabrication steps for preparing a low density, high purity, carbon honeycomb with dovetail-cell geometry.

"Moisture Sorption and Desorption Characteristics of Carbon Foam," by W. B. Malthouse and E. T. Creech, discusses the evaluation of the hygroscopic character of carbon foam by the use of thermogravimetric techniques and mass spectrographic effluent gas analysis.

"Scanning Electron Microscopy of Discontinuous Fiber-Reinforced Graphite," by P. E. Trent and R. K. Bennett, describes the use of scanning electron microscopy techniques to determine the structural features of graphite composites reinforced with graphitized

Babb Son Cited For Asian Duty



Staff Sgt. Richard L. Babb

Staff Sergeant Richard L. Babb has been decorated for distinguished service in Vietnam. Babb, the son of Harold Babb, a former Y-12, is brother to Gerry Babb, Dispatching.

The Bronze Star Citation read in part "he consistently manifested exemplary professionalism and initiative in obtaining outstanding results. His rapid assessment and solution of numberous problems inherent in a combat environment greatly enhanced the allied effectiveness against a determined and aggressive enemy. Despite many adversities, he invariably performed his duties in a resolute and efficient manner. Energetically applying his sound judgment and extensive knowledge, he has contributed materially to the successful accomplishment of the United States mission in the Republic of Vietnam. His loyalty, diligence and devotion to duty were in keeping with the highest traditions of the military service and reflect great credit upon himself and the United States Army."

The citation, authorized by the president of the United States, was issued March 21, 1969 for Babb's service in Vietnam from April of 1968 to March of this

vear.